

**UTILITY PATENT APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 004735.P004

(maximum 12 characters)

First Named Inventor Kiyong Choi et al.Title: SELF-BIAS AND DIGITALLY TUNABLE CONDUCTION ANGLE CIRCUITS FOR A DIFFERENTIAL RF  
NON-LINEAR POWER AMPLIFIER EMPLOYING LOW-VOLTAGE TRANSISTORSExpress Mail Label No. EV320118086US

ADDRESS TO:      Mail Stop: Patent Application  
                         Commissioner for Patents  
                         P.O. Box 1450  
                         Alexandria, VA 22313-1450

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.    XX      **Fee Transmittal Form (e.g., PTO/SB/17)**  
                 (Submit an original and a duplicate for fee processing)
2.    \_\_\_\_\_      Applicant Claims Small Entity Status. (37 CFR 1.27)
3.    XX      **Specification (Total Pages 16)**  
                 (preferred arrangement set forth below)
  - Descriptive Title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference sequence listing, a table,  
                 or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.    XX      **Drawings(s) (35 USC 113) (Total Sheets 3)**
5.    XX      **Oath or Declaration (Total Pages 4)**
  - a.    XX      Newly Executed (Original or Copy)
  - b.    \_\_\_\_\_      Copy from a Prior Application (37 CFR 1.63(d))  
                 (for Continuation/Divisional with Box 18 completed)
    - i.    \_\_\_\_\_      DELETIONS OF INVENTOR(S) Signed statement attached deleting  
                 inventor(s) named in the prior application, see 37 CFR 1.63(d)(2)  
                 and 1.33(b).
  - c.    \_\_\_\_\_      Unsigned.
6.    \_\_\_\_\_      Application Data Sheet. (37 CFR 1.76)
7.    \_\_\_\_\_      CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8.    \_\_\_\_\_      Nucleotide and/or Amino Acid Sequence Submission  
                 (if applicable, all necessary)
  - a.    \_\_\_\_\_      Computer Readable Form (CRF)
  - b.    \_\_\_\_\_      Specification Sequence Listing on:
    - i.    \_\_\_\_\_ CD-ROM or CD-R (2 copies); or
    - ii.    \_\_\_\_\_ paper
  - c.    \_\_\_\_\_      Statement verifying identity of above copies

# **ACCOMPANYING APPLICATION PARTS**

9. XX Assignment Papers (cover sheet & documents(s))
10. XX a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)  
XX b. Power of Attorney
11.        English Translation Document (if applicable)
12.        a. Information Disclosure Statement (IDS)/PTO-1449  
       b. Copies of IDS Citations
13.        Preliminary Amendment
14. XX Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15.        Certified Copy of Priority Document(s) (if foreign priority is claimed)
16.        Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- 17A. XX Other: Certificate of mailing with copy of postcard signed by attorney

17B. XX Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

18A. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet Under 37 C.F.R. 1.76:

       Continuation        Divisional        Continuation-in-part (CIP)  
 Of Prior Application No.:        Examiner        Group Art Unit         
 (which is a        continuation/        divisional/        CIP of prior application no.       )  
 which is a        continuation/        divisional/        CIP of prior application no.       ) (List entire chain of priority)

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.  
 For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18B. Statement under 37 CFR 3.73(b) for continuing application:

The undersigned states that        (name of assignee) is the assignee of the entire right, title, and interest in the accompanying patent application by virtue of an assignment recorded in the Patent and Trademark Office at Reel. No.        Frame No.        (or a copy of which is attached).

19. Correspondence Address  
       Customer Number or Bar Code Label         
       or        (Insert Customer No. or Attach Bar Code Label here)

X Correspondence Address Below

NAME Jan Carol Little  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
 ADDRESS 12400 Wilshire Boulevard  
Seventh Floor  
 CITY Los Angeles STATE California ZIP CODE 90025-1026  
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Name (PRINT/TYPE): Jan Carol Little Registration No.: 41,181  
 Signature: Jan Carol Little Date: 6/19/03

Our Reference: 004735.P004

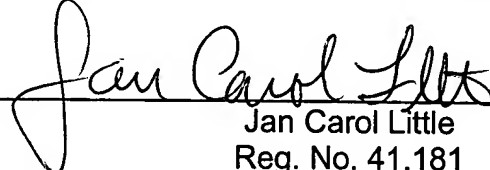
Patent

SELF-BIAS AND DIGITALLY TUNABLE CONDUCTION ANGLE  
CIRCUITS FOR A DIFFERENTIAL RF NON-LINEAR POWER AMPLIFIER  
EMPLOYING LOW-VOLTAGE TRANSISTORS

Inventors: Kiyong Choi and David J. Allstot

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

  
Jan Carol Little  
Reg. No. 41,181

"Express Mail" mailing label number: EV320118086US

Date of Deposit: June 19, 2003

I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Luci M. Arevalo

(Typed or printed name of person mailing paper or fee)

 June 19, 2003  
(Signature of person mailing paper or fee) (Date signed)

Serial/Patent No.: New Patent Application Filing/Issue Date: Herewith  
Client: University of Washington

Title: SELF-BIAS AND DIGITALLY TUNABLE CONDUCTION ANGLE CIRCUITS FOR A DIFFERENTIAL RF NON-LINEAR POWER AMPLIFIER EMPLOYING LOW-VOLTAGE  
BSTZ File No.: 004735.P004

Date Mailed: June 19, 2003

Atty/Secty Initials: JCL/lma

Docket Due Date: \*\*\*\*\*

The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Amendment/Response (____ pgs.)  | <input checked="" type="checkbox"/> Express Mail No.: <u>EV320118086US</u>           | <input checked="" type="checkbox"/> Check No. <u>2953</u> |
| <input type="checkbox"/> Appeal Brief (____ pgs.) (in triplicate)                                    | <input type="checkbox"/> _____ Month(s) Extension of Time                            | Amt: <u>\$874.00</u>                                      |
| <input checked="" type="checkbox"/> Application - Utility ( <u>16</u> pgs., with cover and abstract) | <input type="checkbox"/> Information Disclosure Statement & PTO-1449 (____ pgs.)     | <input type="checkbox"/> Check No. _____                  |
| <input type="checkbox"/> Application - Rule 1.53(b) Continuation (____ pgs.)                         | <input type="checkbox"/> Issue Fee Transmittal                                       | Amt: _____  |
| <input type="checkbox"/> Application - Rule 1.53(b) Divisional (____ pgs.)                           | <input type="checkbox"/> Notice of Appeal  |   |
| <input type="checkbox"/> Application - Rule 1.53(b) CIP (____ pgs.)                                  | <input type="checkbox"/> Petition for Extension of Time                              |   |
| <input type="checkbox"/> Application - Rule 1.53(d) CPA Transmittal (____ pgs.)                      | <input type="checkbox"/> Petition for _____  |   |
| <input type="checkbox"/> Application - Design (____ pgs.)  | <input checked="" type="checkbox"/> Postcard   |   |
| <input type="checkbox"/> Application - PCT (____ pgs.)   | <input type="checkbox"/> Power of Attorney (____ pgs.)                               |   |
| <input type="checkbox"/> Application - Provisional (____ pgs.)                                       | <input type="checkbox"/> Preliminary Amendment (____ pgs.)                           |   |
| <input checked="" type="checkbox"/> Assignment and Cover Sheet                                       | <input type="checkbox"/> Reply Brief (____ pgs.)                                     |   |
| <input checked="" type="checkbox"/> Certificate of Mailing   | <input type="checkbox"/> Response to Notice of Missing Parts                         |   |
| <input checked="" type="checkbox"/> Declaration & POA ( <u>4</u> pgs.)                               | <input type="checkbox"/> Small Entity Declaration for Indep. Inventor/Small Business |   |
| <input type="checkbox"/> Disclosure Docs & Orig & Copy of Inventor's Signed Letter (____ pgs.)       | <input checked="" type="checkbox"/> Transmittal Letter, in duplicate                 |   |
| <input checked="" type="checkbox"/> Drawings: <u>3</u> # of sheets includes <u>7</u> figures         | <input checked="" type="checkbox"/> Fee Transmittal, in duplicate                    |   |

☒ Other: Certificate of mailing with copy of return postcard signed by attorney.

17707 U.S. PTO  
06/19/03

PTO/SB/17 (01-03)

Approved for use through 04/30/2003. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 874.00

## Complete if Known

Application Number	New Patent Application
Filing Date	Concurrently herewith
First Named Inventor	Kiyong Choi et al.
Examiner Name	Not Yet Assigned
Art Unit	Not Yet Assigned
Attorney Docket No.	004735.P004

## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number: 02-2666  
Deposit Account Name:

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	750
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$ 750

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
13	-20** = 0	18	0
4	-3** = 1	84	84
Multiple Dependent			

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 84

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	40
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40

## SUBMITTED BY

Name (Print/Type)	Jan Carol Little	Registration No. (Attorney/Agent)	41,181	Telephone	206-292-8600
Signature	<i>Jan Carol Little</i>	Date	6/19/03		

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.